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GENERAL AVIATION STATISTICAL DATABOOK

1984 Edition

FOREWORD

The GENERAL AVIATION STATISTICAL DATABOOK has provided the answers to hundreds of inquiries about the general aviation industry.

For 1984, the DATABOOK presents new information about the uses of various aircraft types on page 10. Included are data on executive, business, commuter, instructional and personal flying and other activities. This perspective is important as general aviation activity continues to be concentrated on business and commercial flying.

The data presented for the primary uses of active general aviation aircraft represents 1982, the latest year for which information is available. For prior year and forecast trends in general aviation fleet size and composition, please refer to page 24.

As always, we at GAMA are interested in making your analysis of general aviation as accurate and complete as possible. If you need more information or assistance, call or write.

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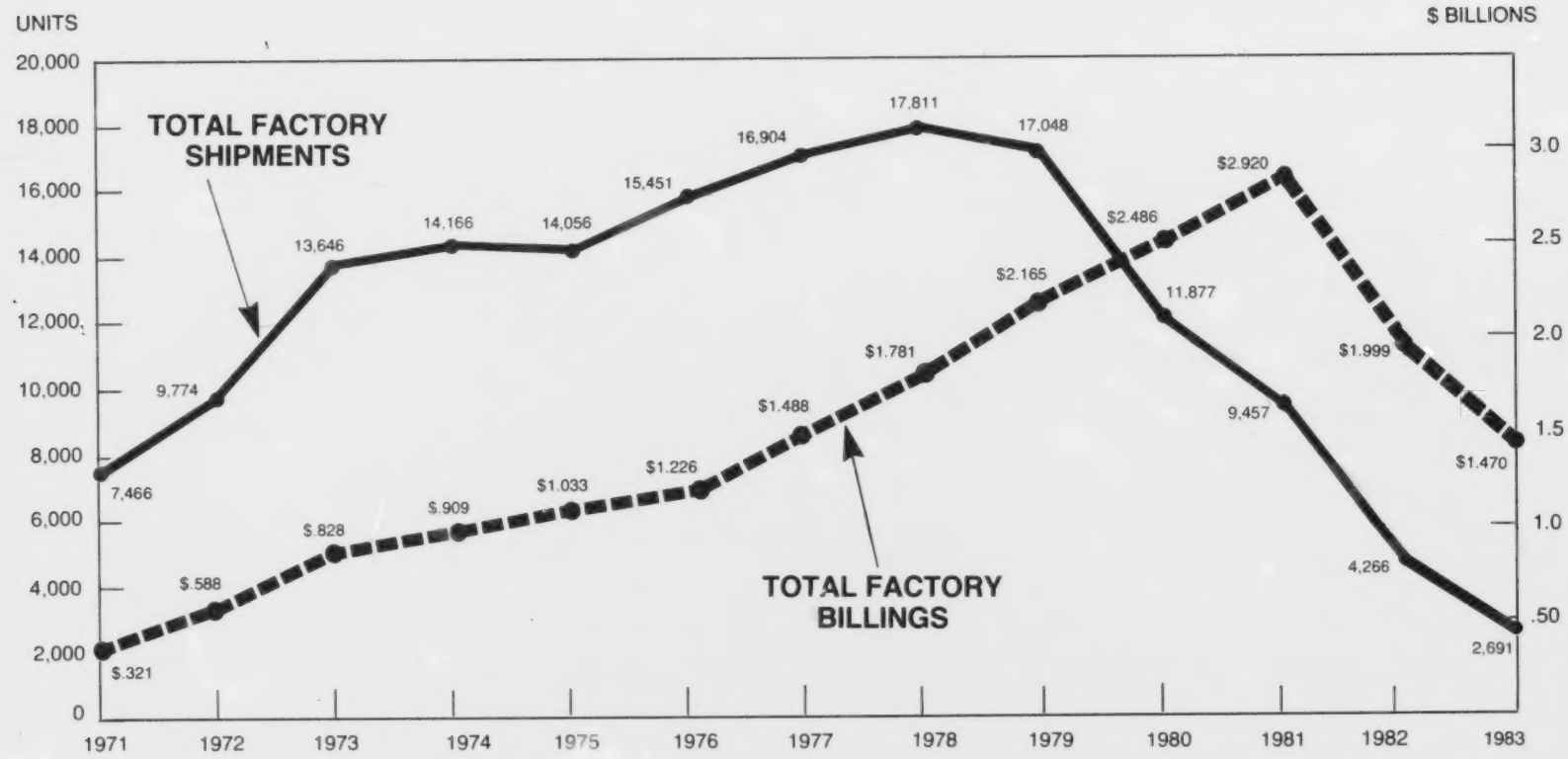
SHIPMENT STATISTICS

Annual Shipments of New U.S. General Aviation Aircraft by Units Shipped, Number of Companies Reporting, and Factory Net Billings

Year	Units Shipped	Companies Reporting	Factory Net Billings (Millions)
1946	35,000	—	$ 110.0
1947	15,594	15	57.9
1948	7,037	12	32.4
1949	3,405	11	17.7
1950	3,386	13	19.1
1951	2,302	12	16.8
1952	3,058	8	26.8
1953	3,788	7	34.4
1954	3,071	7	43.4
1955	4,434	7	68.2
1956	6,738	8	103.7
1957	6,118	9	99.6
1958	6,414	10	101.9
1959	7,689	9	129.8
1960	7,588	8	151.2
1961	6,778	8	124.3
1962	6,697	7	136.8
1963	7,569	7	153.4
1964	9,336	8	198.8
1965	11,852	8	318.2
1966	15,768	10	444.9
1967	13,577	14	359.6
1968	13,698	14	425.7
1969	12,457	14	584.5
1970	7,292	13	337.0
1971	7,466	11	321.5
1972	9,774	12	557.6
1973	13,646	12	828.1
1974	14,166	12	909.4
1975	14,056	12	1,032.9
1976	15,451	12	1,225.5
1977	16,904	12	1,486.1
1978	17,811	12	1,781.2
1979	17,048	12	2,165.0
1980	11,877	12	2,486.2
1981	9,457	12	2,919.9
1982	4,266	11	1,999.5
1983	2,691	10	1,469.5

Source: GAMA

General Aviation Unit Shipments/Billings



U.S. General Aviation Aircraft Shipments by Type of Aircraft

Year	Total	Single Engine	Multi-Engine	Total Piston	Turbo-Prop	Jet
1962	6,697	5,690	1,007	6,697	-0-	-0-
1963	7,569	6,248	1,321	7,569	-0-	-0-
1964	9,336	7,718	1,606	9,324	9	3
1965	11,852	9,873	1,780	11,653	87	112
1966	15,768	13,250	2,192	15,442	165	161
1967	13,577	11,557	1,773	13,330	149	98
1968	13,698	11,398	1,959	13,357	248	93
1969	12,457	10,054	2,078	12,132	214	111
1970	7,292	5,942	1,159	7,101	135	56
1971	7,466	6,287	1,043	7,330	89	47
1972	9,774	7,913	1,548	9,446	179	134
1973	13,646	10,788	2,413	13,193	247	198
1974	14,166	11,579	2,135	13,697	250	202
1975	14,056	11,441	2,116	13,555	305	194
1976	15,451	12,785	2,120	14,905	359	187
1977	16,904	14,054	2,195	16,249	428	227
1978	17,811	14,398	2,634	17,032	548	231
1979	17,048	13,286	2,843	16,129	639	282
1980	11,877	8,640	2,116	10,756	778	326
1981	9,457	6,608	1,542	8,150	918	389
1982	4,266	2,871	678	3,549	458	259
1983	2,691	1,811	417	2,228	321	142

Source: GAMA

U.S. General Aviation Aircraft Shipments by Year and Month

YEAR/ MONTH	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1962	555	578	649	587	601	556	452	436	441	676	527	639
1963	588	538	680	709	653	638	548	553	524	684	604	850
1964	725	696	735	834	836	833	745	575	614	1,102	718	923
1965	866	752	1,024	1,082	948	978	985	1,040	834	1,112	1,120	1,111
*1966	1,187	1,173	1,495	1,385	1,485	1,396	1,093	1,266	1,522	1,073	1,301	1,211
*1967	1,163	1,025	1,204	1,097	1,199	1,184	988	886	927	1,403	1,133	1,275
*1968	1,254	1,191	1,216	1,281	1,250	1,014	908	916	1,458	1,075	1,008	985
*1969	917	1,038	1,342	1,364	1,193	1,035	917	738	1,170	1,192	722	779
*1970	604	617	708	737	719	643	457	505	787	520	475	505
*1971	507	520	744	716	587	599	472	643	788	579	522	669
1972	590	688	879	828	857	879	694	853	870	799	894	943
1973	953	1,043	1,250	1,168	1,242	1,145	1,044	1,322	1,076	1,166	997	1,240
1974	1,139	1,141	1,213	1,432	1,131	1,013	1,041	1,226	1,221	1,243	1,232	1,134
1975	1,146	1,246	1,385	1,239	1,164	1,159	1,032	1,043	1,216	1,148	1,144	1,134
1976	1,215	1,288	1,446	1,439	1,424	1,296	924	1,227	1,328	1,306	1,269	1,289
1977	1,288	1,297	1,539	1,496	1,527	1,490	1,151	1,341	1,493	1,177	1,527	1,578
1978	1,145	1,419	1,612	1,489	1,676	1,456	1,250	1,845	1,577	1,432	1,476	1,434
1979	1,194	1,354	1,711	1,623	1,542	1,437	1,250	1,753	1,423	1,153	1,363	1,245
1980	1,286	1,168	1,058	993	877	886	802	966	1,028	1,092	892	829
1981	659	750	980	960	802	869	743	847	939	555	644	709
1982	384	458	548	395	378	353	319	270	301	249	254	357
1983	213	223	223	228	229	252	204	247	266	148	177	281

*Monthly figures do not sum to annual total because some manufacturers reported annual shipments only.

Source: GAMA

U.S. General Aviation Aircraft Exports

Year	Units Exported	% of Total Production	Factory Net Billings (Millions)	% of Total Dollars
1965	2,325	19.6%	$ 61.2	19.2%
1966	2,903	18.4%	75.4	16.9%
1967	3,035	22.4%	76.5	21.3%
1968	2,803	20.5%	91.5	21.5%
1969	2,623	21.1%	107.1	18.3%
1970	2,170	29.8%	98.9	29.3%
1971	1,854	24.8%	95.6	29.7%
1972	2,254	23.1%	137.9	24.7%
1973	3,530	25.9%	230.2	27.8%
1974	4,248	30.0%	287.5	31.6%
1975	3,512	25.0%	308.1	29.8%
1976	3,539	22.9%	331.2	27.0%
1977	3,611	21.4%	354.5	23.8%
1978	3,612	20.3%	486.7	27.3%
1979	3,995	23.4%	600.9	27.8%
1980	3,555	29.9%	756.4	30.4%
1981	2,270	24.0%	749.0	25.7%
1982	1,162	27.2%	650.2	32.5%
1983	513	19.1%	316.5	21.5%

Source: GAMA

U.S. GENERAL AVIATION FLEET AND FLIGHT ACTIVITY

Type and Primary Use of Active General Aviation Aircraft in 1982

Aircraft Type	Active GA Aircraft	Executive	Business	Personal	Instructional	Aerial Application	Aerial Observation	Other Work	Commuter Air Carrier	Air Taxi	Rental	Other
Total All Aircraft	**209,799**	**15,739**	**47,873**	**94,820**	**14,708**	**7,155**	**4,164**	**1,733**	**1,070**	**8,122**	**9,844**	**4,546**
Piston—Total	**189,195**	**8,115**	**46,707**	**90,882**	**13,634**	**6,261**	**3,324**	**1,256**	**711**	**5,932**	**9,401**	**2,969**
One-Engine	154,173	2,731	36,857	87,305	13,083	5,943	3,003	1,187	212	2,819	9,062	1,970
Two-Engine	24,882	5,380	9,847	3,573	551	267	315	66	477	3,109	326	965
Other Piston	140	4	2	4	0	50	5	2	22	4	13	34
Turboprop—Total	**5,186**	**3,327**	**570**	**32**	**0**	**101**	**26**	**6**	**296**	**499**	**34**	**295**
Two-Engine	5,037	3,322	570	29	0	0	24	0	294	493	34	272
Other Turboprop	149	5	0	3	0	101	3	6	3	6	0	23
Turbojet—Total	**3,996**	**3,054**	**231**	**47**	**0**	**0**	**0**	**0**	**63**	**393**	**0**	**207**
Two-Engine	3,309	2,477	222	47	0	0	0	0	24	393	0	146
Other Turboprop	687	577	8	0	0	0	0	0	39	0	0	60
Rotorcraft—Total	**6,169**	**1,238**	**352**	**486**	**457**	**793**	**715**	**300**	**0**	**1,227**	**29**	**571**
Piston	2,419	190	201	356	379	677	352	51	0	43	3	168
Turbine	3,749	1,048	151	130	78	116	364	249	0	1,184	26	403
Other—Total	**5,233**	**4**	**13**	**3,373**	**616**	**0**	**98**	**172**	**0**	**71**	**380**	**505**

Source: FAA

NOTE: Row and column summation may differ from printed totals due to estimation procedures.

U.S. Active General Aviation Aircraft by Region and State (as of December 31, year indicated)

	1982	1981		1982	1981
ALASKAN	6,924	6,450	NORTHWEST MOUNTAIN	22,530	24,648
Alaska	6,294	6,450	Colorado	4,982	5,498
			Idaho	2,376	2,349
CENTRAL	13,069	14,489	Montana	2,193	2,463
Iowa	3,455	3,747	Oregon	4,789	5,640
Kansas	3,534	3,932	Utah	1,196	1,508
Missouri	4,540	4,465	Washington	5,532	6,048
Nebraska	1,539	2,343	Wyoming	1,462	1,142
EASTERN	23,226	21,988	SOUTHERN	32,604	33,331
Delaware	586	549	Alabama	2,628	2,980
District of Columbia	152	54	Florida	12,297	12,863
Maryland	2,646	2,645	Georgia	4,997	4,477
New Jersey	3,858	3,659	Kentucky	1,525	1,687
New York	6,118	5,687	Mississippi	2,252	2,132
Pennsylvania	6,313	5,666	North Carolina	3,740	4,300
Virginia	2,327	2,784	Puerto Rico	251	124
West Virginia	1,227	942	South Carolina	1,766	1,870
			Tennessee	2,924	2,730
GREAT LAKES	37,825	43,206			
Illinois	7,983	8,692	SOUTHWEST	34,690	33,440
Indiana	3,074	4,285	Arkansas	2,994	2,486
Michigan	7,065	7,430	Louisiana	3,742	3,908
Minnesota	4,493	5,417	New Mexico	2,323	2,247
North Dakota	1,705	1,709	Oklahoma	5,440	5,185
Ohio	8,162	8,406	Texas	20,000	19,481
South Dakota	1,360	1,125			
Wisconsin	3,983	4,432	WESTERN	35,146	37,992
			Arizona	4,679	4,976
NEW ENGLAND	7,861	7,224	California	27,848	30,873
Connecticut	1,798	1,686	Hawaii	426	623
Maine	1,109	1,156	Nevada	2,018	1,520
Massachusetts	2,959	2,409			
New Hampshire	1,197	1,202	Other U.S. Territories	72	54
Rhode Island	266	320	Foreign-Total	778	NA
Vermont	532	447			

Column totals may differ from printed totals due to estimation procedures.

Source: FAA

FLIGHT HOURS BY TYPE . . .

Estimated Hours Flown in General Aviation by Type of Aircraft
(in Thousands of Hours)

As of December 31	Total	Fixed Wing			Rotorcraft		Balloons, Dirigibles Gliders
		Piston	Turboprop	Turbojet	Piston	Turbine	
1976	33,922	29,713	1,326	911	753	950	270
1977	35,791	30,965	1,549	1,165	609	1,259	245
1978	39,409	34,043	1,606	1,194	806	1,421	338
1979	43,340	37,303	1,871	1,259	892	1,664	353
1980	41,016	34,747	2,240	1,332	736	1,603	359
1981	40,704	34,086	2,155	1,387	930	1,754	391
1982	36,457	29,950	2,168	1,611	579	1,771	379

Note. Columns may not add due to rounding and estimation procedures.

Source: FAA

. . . AND PER AIRCRAFT

Active U.S. General Aviation Aircraft and Average Hours Annually Flown Per Aircraft, by Type

	Estimated Active Aircraft					Average Hours/Aircraft				
	1982	1981	1980	1979	1978	1982	1981	1980	1979	1978
TOTAL AIRCRAFT	**209,779**	**213,226**	**211,045**	**210,339**	**198,778**	**174**	**188**	**191**	**206**	**198**
Piston Total	**189,195**	**193,370**	**193,014**	**193,470**	**183,823**	**160**	**175**	**178**	**193**	**185**
Single engine	**164,173**	**167,898**	**168,435**	**168,390**	**160,651**	**149**	**166**	**168**	**180**	**173**
1-3 seats	57,670	59,914	60,505	62,362	59,185	146	171	166	180	171
4 + seats	106,503	107,983	107,930	106,028	101,466	151	163	170	181	175
Multi-engine	**24,882**	**25,356**	**24,366**	**24,850**	**22,950**	**231**	**251**	**255**	**277**	**265**
1-6 seats	16,381	16,749	16,224	16,891	15,621	187	215	228	238	233
7 + seats	8,501	8,607	8,141	7,958	7,328	317	326	311	359	332
Other Piston	140	114	212	229	221	247	197	625	663	466
Turboprop Total	**5,186**	**4,660**	**4,090**	**3,579**	**3,130**	**396**	**470**	**533**	**523**	**513**
Twin Engine										
1-12 seats	4,427	3,968	3,339	2,944	2,507	356	398	445	426	383
13 + seats	610	557	627	538	566	853	989	1,038	1,064	1,099
Other Turboprop	149	134	123	96	56	394	499	487	466	429
Turbojet Total	**3,996**	**3,171**	**2,992**	**2,653**	**2,480**	**404**	**436**	**444**	**475**	**482**
Twin Engine	3,309	2,808	2,551	2,309	2,115	407	443	456	487	481
Other	687	362	441	343	364	385	377	350	392	481
Rotorcraft Total	**6,169**	**6,974**	**6,001**	**5,864**	**5,315**	**383**	**391**	**382**	**436**	**419**
Piston	2,419	3,250	2,794	3,123	2,822	237	285	263	286	286
Turbine	3,749	3,724	3,207	2,740	2,492	474	490	498	608	570
Other	**5,233**	**5,049**	**4,945**	**4,770**	**4,028**	**72**	**78**	**75**	**74**	**84**

Source: FAA

PILOTS

Active U.S. Pilot Certificates Held
(as of December 31, year indicated)

Category	1971	1972	1973[3]	1974	1975	1976	1977	1978	1979	1980	1981	1982
Pilot—total	**741,009**	**750,869**	**714,607**	**733,728**	**728,187**	**744,246**	**[R]783,932**	**798,833**	**814,667**	**827,071**	**764,182**	**733,255**
Student	186,428	181,477	181,905	180,795	176,978	188,801	[R]203,510	204,874	210,180	199,833	179,912	156,361
Private	312,656	321,413	298,921	305,848	305,863	309,005	327,424	337,644	343,276	357,479	328,562	322,094
Commercial	192,409	196,228	182,444	192,425	189,342	187,801	188,763	185,833	182,097	183,442	168,580	165,093
Airline transport	35,949	37,714	38,139	41,002	42,592	45,072	50,149	55,881	63,652	69,569	70,311	73,471
Helicopter (only)	7,992	7,987	5,968	5,647	4,932	4,804	4,819	4,874	5,218	6,030	6,453	7,034
Glider (only)[1]	3,571	4,080	4,288	4,824	5,348	5,789	6,208	6,541	6,796	7,039	7,388	7,842
Lighter-than-air[1]	2,004	1,970	2,942	3,187	3,132	2,974	3,059	3,186	3,448	3,679	2,976	1,360
Nonpilot—total	**307,057**	**[R]315,348**	**304,747**	**314,394**	**323,934**	**334,681**	**348,584**	**362,350**	**377,213**	**393,486**	**398,368**	**420,595**
Mechanic[1]	193,295	201,700	193,337	198,863	205,436	212,303	220,768	228,743	237,611	250,157	262,705	277,436
Parachute rigger[1]	6,839	7,287	6,941	7,900	8,327	8,718	8,994	9,200	9,831	9,547	9,716	9,893
Ground instructor[1]	46,145	48,450	46,827	49,249	51,365	53,464	55,717	57,738	59,680	61,550	63,246	65,004
Dispatcher[1]	5,480	5,637	5,527	5,576	5,741	5,838	5,972	6,161	6,446	6,799	7,094	7,580
Control tower operator	26,450	[R]23,353	23,250	23,342	23,956	24,584	25,107	25,388	25,232	25,130	15,528[4]	20,934
Flight navigator	3,052	2,957	2,636	2,509	2,321	2,214	2,155	2,092	1,994	1,936	1,785	1,695
Flight engineer	25,796	25,964	26,229	26,955	26,788	27,560	29,871	33,028	36,869	38,367	38,294	38,053
Flight instructor certificates	37,760	37,858	36,795	42,418	44,777	46,236	49,362	52,201	54,398	60,440	57,523	62,492
Instrument Ratings[2]	179,261	187,909	185,969	199,323	203,954	211,364	226,334	236,312	247,096	260,461	252,535	255,073

Source: FAA

Estimated: 1980 is based on a 27-month criteria only. Other years are based on a 25 month criteria.

[1]Numbers represent all certificates on record. No medical examination required.

[2]Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.

[3]The decrease in the number of airmen resulted from a purging of the airmen certification files. During this process, approximately 26,000 duplicates or faulty records were eliminated.

[4]Does not include approximately 15,000 air traffic controllers whose medical certificates are no longer processed by the Civil Aeromedical Institute (CAMI). They are being processed by a separate system, and will be included in future counts.

[R]Revised.

Active U.S. Pilots and Flight Instructors by FAA Region and State (as of December 31, 1982)

FAA Region and State	Total Pilots	Student	Private	Commercial	Airline Transport	Misc.[2]	Flight Instructor[3]
Total	**733,255**[1]	**156,361**	**322,094**	**165,093**	**73,471**	**16,236**	**62,492**
United States—Total	**715,349**	**152,869**	**318,378**	**159,395**	**68,871**	**15,836**	**61.601**
Alaskan Region—Total	**10,589**	**2,017**	**4,808**	**2,628**	**995**	**141**	**862**
Central—Total	**42,774**	**8,082**	**22,484**	**8,814**	**2,791**	**603**	**3,422**
Kansas	12,411	2,234	6,508	2,658	845	166	955
Iowa	10,013	1,916	5,791	1,802	363	141	757
Missouri	13,511	2,654	6,395	2,910	1,309	243	1,232
Nebraska	6,839	1,278	3,790	1,444	274	53	478
Eastern—Total	**91,746**	**21,353**	**38,690**	**20,486**	**8,515**	**2,702**	**8,445**
New York	26,848	6,737	11,467	5,632	1,988	1,024	2,402
Pennsylvania	20,718	4,887	9,269	4,104	1,898	560	2,025
Virginia	14,512	2,919	5,291	4,382	1,554	366	1,296
Maryland	9,102	2,025	4,082	2,076	702	217	798
West Virginia	2,841	685	1,310	586	208	52	251
Delaware	1,575	285	700	359	201	30	183
New Jersey	15,469	3,627	6,281	3,206	1,932	423	1,445
District of Columbia	681	188	290	141	32	30	45
Great Lakes—Total	**124,957**	**26,546**	**62,646**	**24,832**	**8,929**	**2,004**	**10,782**
Illinois	30,340	6,722	14,355	5,957	2,840	466	2,734
Indiana	12,901	2,780	6,571	2,613	728	209	1,162
Minnesota	16,623	3,096	8,365	3,491	1,510	161	1,293
Michigan	20,667	4,290	10,824	3,839	1,239	475	1,762
North Dakota	3,797	877	1,838	945	102	35	282
Ohio	24,501	5,237	12,162	4,942	1,650	510	2,355
South Dakota	3,192	695	1,640	736	98	23	231
Wisconsin	12,936	2,849	6,891	2,309	762	125	963
New England—Total	**31,141**	**7,416**	**12,781**	**6,352**	**3,826**	**766**	**2,550**
Maine	3,469	812	1,577	803	230	47	249
New Hampshire	4,002	770	1,411	929	792	100	352
Rhode Island	1,561	370	703	329	124	35	122
Massachusetts	11,507	2,970	5,165	2,140	905	327	944
Connecticut	9,000	2,090	3,219	1,834	1,653	204	741
Vermont	1,602	404	706	317	122	53	142
N.W. Mountain—Total	**73,332**	**15,656**	**33,234**	**15,910**	**6,792**	**1,740**	**6,296**
Washington	22,690	4,392	9,804	5,451	2,619	424	1,975
Oregon	12,294	2,385	6,669	2,499	550	191	966
Idaho	5,051	937	2,587	1,169	292	66	448
Colorado	19,455	4,858	7,338	3,939	2,484	836	1,801
Wyoming	3,144	827	1,535	570	172	40	246
Utah	5,714	1,311	2,651	1,191	429	132	461
Montana	4,984	946	2,650	1,091	246	51	399
Southern—Total	**112,215**	**24,022**	**44,691**	**27,837**	**13,146**	**2,519**	**9,656**
North Carolina	12,536	2,930	5,502	2,780	1,060	264	1,026
South Carolina	6,153	1,366	2,554	1,626	491	116	541
Georgia	16,471	3,388	5,807	3,979	2,959	338	1,320
Florida	45,308	9,223	17,618	11,683	6,106	678	3,895
Mississippi	5,516	1,292	2,144	1,650	329	101	410
Alabama	9,439	1,915	3,797	2,694	536	497	1,013
Tennessee	11,277	2,530	4,762	2,352	1,325	308	999
Kentucky	5,515	1,378	2,507	1,073	340	217	452
Southwest—Total	**98,224**	**21,536**	**40,317**	**23,730**	**10,643**	**1,998**	**8,891**
Louisiana	11,053	2,447	4,183	3,167	896	360	988
Oklahoma	14,601	3,248	7,072	3,157	956	168	1,253
Texas	59,851	12,995	23,508	14,187	7,984	1,177	5,586
New Mexico	6,136	1,363	2,694	1,449	410	220	533
Arkansas	6,583	1,483	2,860	1,770	397	73	531
Western-Pacific—Total	**130,371**	**26,241**	**58,727**	**28,806**	**13,234**	**3,363**	**10,697**
Hawaii	3,327	689	907	959	608	164	291
California	106,299	21,411	48,726	23,089	10,461	2,612	8,542
Arizona	14,921	3,037	6,687	3,503	1,245	449	1,333
Nevada	5,824	1,104	2,407	1,255	920	138	531
Outside U.S.—Total	**17,906**	**3,492**	**3,716**	**5,698**	**4,600**	**400**	**891**

Source: FAA

[1]Includes Outside U.S.
[2]Includes helicopter, glider, and lighter-than-air.
[3]Not included in total.
NOTE: Puerto Rico and Virgin Islands are included in Outside U.S. total.
Estimated: Data is based on a 25-month criteria.

U.S. Student Pilot Certificates Processed by Month and Year

Month	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
Total	**128,004**	**121,543**	**131,384**	**113,997**	**127,424**	**129,280**	**138,816**	**137,032**	**135,956**	**102,301**	**117,962**	**86,371**	**94,981**
January	8,131	7,515	7,608	8,200	9,794	11,853	10,247	7,385	12,926	10,462	9,179	7,289	6,726
February	7,458	7,936	8,622	6,195	7,506	6,396	8,010	8,253	10,585	7,835	8,568	6,499	4,859
March	10,314	10,176	9,963	7,661	9,445	10,921	11,921	11,234	9,525	7,872	9,718	6,857	6,893
April	9,406	10,445	10,513	7,690	8,654	10,835	9,871	10,646	9,968	7,775	7,036	5,372	7,304
May	10,490	10,495	10,712	10,013	10,204	10,749	10,286	11,032	9,919	8,510	8,387	5,053	7,667
June	11,451	11,174	12,242	10,970	9,865	10,322	11,573	11,490	9,308	8,577	8,885	6,632	5,811
July	13,146	10,366	13,473	10,261	12,339	12,300	11,372	10,544	13,266	6,941	8,387	6,416	5,330
August	13,785	15,007	14,643	12,431	12,471	12,930	15,262	13,839	16,920	10,590	8,363	8,536	10,407
September ..	12,314	10,850	11,568	10,320	13,587	12,320	13,967	11,904	12,051	9,936	10,713	8,850	11,913
October	12,338	10,962	11,715	10,863	11,979	8,864	11,678	15,548	11,926	9,186	14,327	8,254	11,214
November ...	10,853	10,298	12,385	9,770	11,681	12,292	15,114	13,096	12,928	7,052	12,424	8,407	8,529
December ...	8,318	6,319	7,940	9,353	9,899	9,498	9,495	12,061	6,634	7,565	11,975	8,211	8,328

Source: FAA

Estimated Total and Instrument Rated Pilots: December 31, 1976-82

Calendar Year	Total Pilots[1]	Instrument Rated Pilots	
		Number	Percent of Total
1982	576,894	255,073	44
1981	584,270	252,535	43
1980	627,238	260,461	42
1979	604,487	247,096	41
1978	593,959	236,312	40
1977	580,422	226,334	39
1976	555,625	211,364	38

Source: FAA

Estimated: Data is based on a 27-month criteria. Past years are based on a 25-month criteria.[1] Excludes student pilots.

Estimated Instrument Ratings Held, By Class of Certificates: December 31, 1982 and 1981

Class of Certificates	1982	1981	Percentage Change 1982-1981
Total—All Groups	**255,073**	**252,535**	**1**
Private Pilots—Total	**40,803**	**39,862**	**2**
Private Airplane (only)	37,865	37,091	2
Private Airplane, Private Glider	880	853	3
Private Airplane, Commercial Glider	84	75	12
Private Airplane, Private Helicopter	247	229	8
Private Airplane, Private Glider, Private Helicopter	15	15	—
Private Airplane, Commercial Helicopter	1,688	1,576	7
Private Airplane, Private Gyroplane	4	3	33
Private Airplane, Private Glider, Commercial Helicopter	9	12	-25
Private Airplane, Commercial Glider, Commercial Helicopter	10	7	42
Private Airplane, Other	1	1	—
Commercial Pilots—Total	**135,984**	**138,023**	**- 1**
Commercial Airplane (only)	115,441	117,334	- 2
Commercial Airplane, Private Glider	1,806	1,817	- 1
Commercial Airplane, Commercial Glider	3,304	3,259	1
Commercial Airplane, Private Helicopter	171	160	7
Commercial Airplane, Commercial Helicopter	14,533	14,729	- 1
Commercial Airplane, Private Glider, Commercial Helicopter	133	136	- 2
Commercial Airplane, Commercial Glider, Commercial Helicopter	537	525	2
Commercial Airplane, Commercial Gyroplane	16	20	-20
Commercial Airplane, Commercial Helicopter, Commercial Gyroplane	18	18	--
Commercial Airplane, Commercial Gyroplane Commercial Glider	2	2	—
Commercial Airplane, Commercial Glider, Private Helicopter	14	11	27
Commercial Airplane, Commercial Gyroplane, Commercial Helicopter, Commercial Glider	9	12	-25
Airline Transport Pilots—Total	**73,471**	**70,311**	**4**
Airline Transport Airplane	72,393	69,377	4
Airline Transport Airplane, Airline Transport Helicopter	1,078	934	15
Rotorcraft Pilots—Total	**4,815**	**4,339**	**11**
Commercial Helicopter	4,756	4,286	11
Airline Transport Helicopter	45	36	25
Rotorcraft Other	14	17	-18

Source: FAA

Estimated: 1981 is based on a 25-month criteria.

Women Actively Engaged in U.S. Aviation
(as of December 31, year indicated)

Category of Certificates Held	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Pilot—total	**29,472**	**31,216**	**33,001**	**34,356**	**36,943**	**37,934**	**41,643**	**47,294**	**49,874**	**51,733**	**52,902**	**47,721**	**45,305**
Student	15,787	16,417	17,053	18,593	19,298	19,600	22,254	25,705	26,354	26,714	26,006	22,591	19,958
Private	11,409	12,332	13,391	13,232	14,465	14,952	15,838	17,702	19,267	20,275	21,554	19,602	19,388
Commercial	1,897	2,032	2,196	2,083	2,596	2,733	2,857	3,090	3,306	3,618	3,993	4,101	4,257
Airline transport	79	88	101	95	116	137	160	193	270	361	480	584	749
Helicopter (only)	6	9	10	7	5	11	17	18	17	27	55	87	113
Glider (only)[1]*	141	169	201	216	271	301	352	391	433	461	496	540	574
Lighter-than-air[1]*	153	169	49	130	192	200	165	195	227	277	318	216	266
Nonpilot—total	**3,078**	**3,413**	**3,594**	**3,074**	**3,471**	**3,809**	**4,252**	**4,716**	**5,135**	**5,600**	**6,111**	**6,348**	**7,115**
Mechanic[1]	302	322	349	284	315	360	422	505	600	695	890	1,051	1,298
Parachute rigger[1]	461	470	483	336	495	504	516	535	544	553	562	580	593
Ground instructor[1]	2,006	2,081	2,166	1,960	2,139	2,249	2,369	2,525	2,682	2,852	3,015	3,213	3,391
Dispatcher[1]	38	39	40	39	42	50	55	65	76	105	141	167	199
Control tower operator	271	501	556	453	473	638	874	1,044	1,151	1,250	1,332	1,147	1,418
Flight engineer	0	0	0	2	7	8	16	42	82	145	171	189	215
Flight Navigator	0	0	0	0	0	0	0	0	0	0	0	1	1
Flight instructor	589	646	664	618	834	945	1,054	1,238	1,458	1,699	2,079	2,165	2,532

Source: FAA

NOTE: Instrument ratings not reported.

* Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination.

[1] No medical examination required.

AIRPORTS AND AERONAUTICAL FACILITIES

U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases on Record by Type of Ownership December 31, 1983

FAA Region and State	Total Facilities	By Ownership		Paved Airports		Unpaved Airports	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Total	**16,029**	**4,812**	**11,217**	**3,939**	**1,502**	**939**	**8,652**
United States—total*	**15,966**	**4,770**	**11,196**	**3,921**	**1,495**	**939**	**8,630**
Alaskan—total	615	410	205	43	16	68	488
Central—total	**1,425**	**471**	**954**	**401**	**114**	**137**	**773**
Iowa	280	123	157	101	24	53	102
Kansas	380	132	248	108	16	38	218
Missouri	419	121	298	117	54	25	223
Nebraska	346	95	251	75	20	21	230
Eastern—total	**2,051**	**326**	**1,725**	**428**	**379**	**125**	**1,119**
Delaware	37	4	33	7	6	8	16
District of Columbia	16	7	9	5	8	0	3
Maryland	147	25	122	39	25	12	71
New Jersey	291	36	255	47	66	17	161
New York	476	82	394	101	85	36	254
Pennsylvania	720	79	641	122	125	41	432
Virginia	270	65	205	76	40	9	145
West Virginia	94	28	66	31	24	2	37
Great Lakes—total	**4,031**	**860**	**3,171**	**779**	**299**	**323**	**2,630**
Illinois	909	98	811	113	79	61	656
Indiana	498	80	418	90	41	31	336
Michigan	422	132	290	126	34	42	220
Minnesota	492	146	346	95	12	46	339
North Dakota	451	97	354	62	7	25	357
Ohio	678	131	547	143	99	57	379
South Dakota	165	75	90	45	4	31	85
Wisconsin	416	101	315	105	23	30	258
New England—total	**513**	**138**	**375**	**132**	**110**	**9**	**261**
Connecticut	105	15	90	28	32	1	44
Maine	146	45	101	28	13	4	101
Massachusetts	130	35	95	41	41	3	45
New Hampshire	54	15	39	18	13	2	21
Rhode Island	18	8	10	7	4	0	7
Vermont	60	20	40	10	7	0	43

(Continued from page 20)

FAA Region and State	Total Facilities	By Ownership		Paved Airports		Unpaved Airports	
		Public	Private	Lighted	Not Lighted	Lighted	Not Lighted
Northwest Mountain—total	**1,636**	**655**	**981**	**419**	**278**	**98**	**841**
Colorado	321	91	230	78	66	19	158
Idaho	196	130	66	40	22	4	130
Montana	197	119	78	66	17	18	96
Oregon	341	96	245	66	67	19	189
Utah	95	54	41	42	20	1	32
Washington	382	120	262	96	72	34	180
Wyoming	104	45	59	31	14	3	56
Southern—total	**1,947**	**760**	**1,187**	**687**	**306**	**94**	**860**
Alabama	169	98	71	96	29	6	38
Florida	541	136	405	124	88	30	299
Georgia	302	125	177	110	49	11	132
Kentucky	127	65	62	57	27	4	39
Mississippi	181	83	98	72	27	7	75
North Carolina	284	91	193	89	30	16	149
Puerto Rico	31	14	17	11	16	0	4
South Carolina	137	64	73	50	14	13	60
Tennessee	169	79	90	76	26	7	60
Virgin Islands	6	5	1	2	0	0	4
Southwest—total	**2,506**	**694**	**1,812**	**688**	**550**	**63**	**1,205**
Arkansas	160	85	75	75	22	4	59
Louisiana	311	77	234	71	91	5	144
New Mexico	160	68	92	47	25	2	86
Oklahoma	332	137	195	122	52	12	146
Texas	1,543	327	1,216	373	360	40	770
Western—total	**1,305**	**498**	**807**	**362**	**450**	**21**	**472**
Arizona	240	88	152	64	57	5	114
California	862	300	562	257	329	13	263
Hawaii	51	18	33	12	26	0	13
Nevada	126	69	57	23	32	3	68
South Pacific**	26	23	3	6	6	0	14

*Excludes Puerto Rico, Virgin Islands, N. Mariana Islands, and South Pacific.
**American Samoa, Guam, and Trust Territories.

Source: FAA

FAA Air Route Facilities and Services: 1972 through 1982

December 31	VOR VORTAC	Nondirectional Beacons	Air Route Traffic Control Centers	Airport Traffic Control Towers	Combined Station/ Towers	Flight Service Stations	International Flight Service Stations	Instrument Landing Systems	Airport Surveillance Radar
1972	991	706	27	355	42	324	7	403	125
1973	995	739	27	403	29	315	7	467	142
1974	1,000	793	27	417	21	320	7	490	156
1975	1,011	848	26	487	21	321	7	580	177
1976	1,020	920	25	488	16	321	7	640	175
1977	1,021	959	25	495	7	319	7	678	182
1978	1,020	988	25	494	7	319	6	698	185
1979	1,028	1,015	25	499	5	318	6	753	192
1980[B]	1,037	1,055	25	502	4	317	6	796	192
1981	1,033	1,123	25	501	1	316	6	840	199
1982	1,029[A]	1,143[B]	25[C]	492[D]	0	316	6	884[E]	197[F]

[A]Includes 66 nonfederal and 38 military.
[B]Includes 784 nonfederal and 54 military.
[C]Includes 3 military combined center/radar approach control facilities (CERAP).
[D]Includes 35 nonfederal and 25 military.
[E]Includes 13 Landing Directional Aid (LDA), 82 nonfederal, and 3 military.
[F]Includes 15 military.

Source: FAA

FORECASTS AND OTHER INFORMATION

Estimated Active General Aviation Aircraft by Type of Aircraft
(in Thousands)

As of December 31	Total	Fixed Wing				Rotorcraft		Balloons/ Dirigibles/ Gliders
		Piston						
		Single Engine	Multi-Engine	Turboprop	Turbojet	Piston	Turbine	
Historical								
1978	198.8	160.7	23.2	3.1	2.5	2.8	2.5	4.0
1979	210.3	168.4	25.1	3.5	2.7	3.1	2.7	4.8
1980	211.0	168.4	24.6	4.1	3.0	2.8	3.2	4.9
1981	213.2	167.9	25.5	4.7	3.2	3.3	3.7	5.0
1982	209.8	164.2	25.0	5.2	4.0	2.4	3.7	5.2
Forecast								
1983	207.0	160.6	24.7	5.5	4.2	2.4	4.3	5.3
1984	211.0	162.9	25.0	6.0	4.5	2.4	4.8	5.4
1985	216.9	166.7	25.6	6.6	4.9	2.3	5.2	5.6
1986	224.5	172.0	26.5	7.1	5.2	2.3	5.5	5.9
1987	233.6	178.7	27.5	7.6	5.5	2.3	5.8	6.2
1988	244.7	187.1	28.8	8.1	5.7	2.3	6.1	6.6
1989	251.8	192.2	29.6	8.6	5.9	2.2	6.5	6.8
1990	259.0	197.0	30.5	9.1	6.2	2.2	6.7	7.1
1991	266.6	202.4	31.4	9.6	6.5	2.2	7.2	7.3
1992	274.0	207.7	32.2	10.1	6.7	2.2	7.5	7.6
1993	281.0	212.6	33.0	10.5	6.9	2.1	8.1	7.8
1994	287.0	216.8	33.7	10.9	7.1	2.1	8.4	8.0

Source: FAA

Detail may not add to total because of independent rounding.
An active aircraft must have a current registration and it must have been flown at least 1 hour during the previous calendar year.
Includes commuter aircraft with less than 60 seats.

Forecast Active Pilots by Type of Certificate
(thousands)

As of December 31	Total	Students	Private	Commercial	Airline Transport	Helicopter	Glider	Other	Instrument Rated[1]
1983	742.3	153.8	326.9	167.7	76.8	7.4	8.2	1.5	263.7
1984	761.2	157.9	335.1	170.1	80.2	7.7	8.6	1.6	274.3
1985	790.2	171.4	343.9	172.3	83.7	8.1	9.1	1.7	285.3
1986	815.7	181.9	352.7	174.2	87.2	8.4	9.5	1.8	296.7
1987	840.2	192.1	361.0	175.9	90.7	8.7	9.9	1.9	308.5
1988	864.5	202.6	368.9	177.5	94.2	9.0	10.3	2.0	317.8
1989	888.7	213.3	376.5	178.9	97.8	9.3	10.7	2.2	327.3
1990	910.7	222.4	383.6	180.2	101.4	9.6	11.1	2.4	337.2
1991	930.7	229.8	390.6	181.3	104.9	9.9	11.6	2.6	347.2
1992	952.1	238.9	397.2	182.4	108.6	10.2	11.9	2.8	361.2
1993	971.3	246.4	403.8	183.3	112.1	10.5	12.2	3.0	371.9
1994	990.6	254.1	410.2	184.1	115.8	10.8	12.4	3.2	380.0

Source: FAA

Detail may not add to total because of rounding.
[1]Should not be added to other categories in deriving total.

FLIGHT HOURS FORECAST—

Forecast Hours Flown in General Aviation by Type of Aircraft
(millions)

Fiscal Year	Total	Fixed Wing				Rotorcraft		Balloons Dirigibles Gliders
		Piston						
		Single Engine	Multi-Engine	Turboprop	Turbojet	Piston	Turbine	
Historical								
1979	42.3	29.7	6.8	1.8	1.2	.9	1.6	.3
1980	41.6	28.8	6.6	2.1	1.3	.8	1.6	.4
1981	41.0	27.9	6.4	2.2	1.4	.9	1.8	.4
1982	37.8	25.2	6.0	2.1	1.6	.7	1.8	.4
1983[E]	36.6	23.8	5.8	2.2	1.7	.6	2.1	.4
Forecast								
1984	37.6	24.1	6.0	2.4	1.8	.6	2.3	.4
1985	39.1	24.9	6.2	2.6	1.9	.6	2.5	.4
1986	41.1	26.1	6.4	2.8	2.1	.5	2.7	.5
1987	43.3	27.7	6.6	3.0	2.2	.5	2.8	.5
1988	45.9	29.7	6.8	3.2	2.2	.5	3.0	.5
1989	47.7	31.1	6.9	3.3	2.3	.4	3.2	.5
1990	49.6	32.3	7.1	3.4	2.4	.4	3.4	.6
1991	51.4	33.6	7.2	3.6	2.5	.3	3.6	.6
1992	53.3	34.9	7.4	3.8	2.6	.3	3.7	.6
1993	55.1	36.2	7.6	3.9	2.6	.3	3.9	.6
1994	56.9	37.3	7.7	4.1	2.7	.3	4.1	.7
1995	58.4	38.4	7.8	4.2	2.8	.3	4.2	.7

E—Estimate

Source: FAA

Detail may not add to total because of independent rounding.

FUEL USE FORECAST—

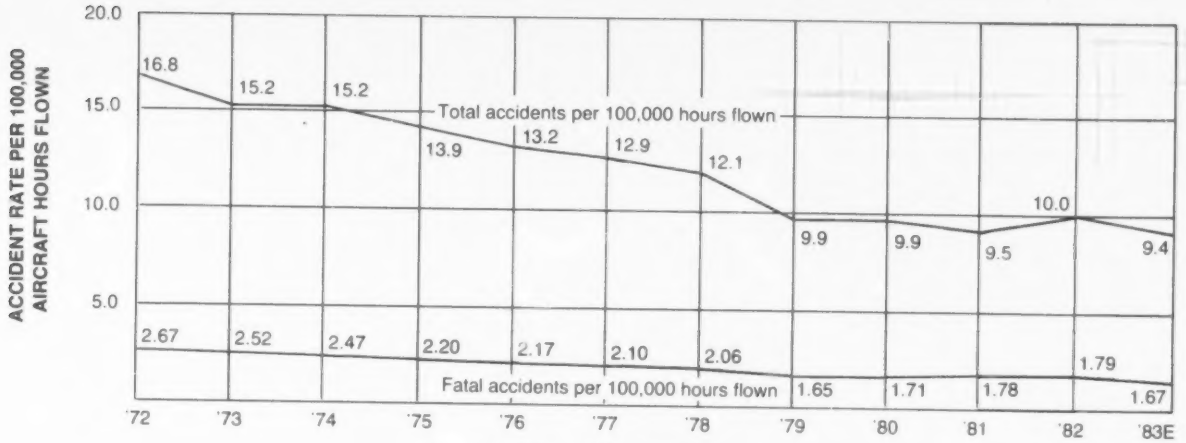
Estimated Fuel Consumed by General Aviation by Type of Aircraft
(millions of gallons)

Fiscal Year	Total	Fixed Wing				Rotorcraft		Other
		Piston						
		Single Engine	Multi-Engine	Turboprop	Turbojet	Piston	Turbine	
Historical								
1979	1,299.8	296.1	241.9	192.6	489.6	18.4	60.2	1.0
1980	1,291.0	287.6	231.1	223.9	474.6	13.3	59.7	.8
1981	1,257.3	276.5	206.1	219.6	483.2	13.3	57.8	.8
1982	1,314.2	251.2	197.4	230.8	562.1	9.7	62.5	.5
1983[E]	1,348.5	237.0	190.8	241.8	597.2	8.3	72.9	.5
Forecast								
1984	1,422.1	240.0	197.4	263.8	632.3	8.3	79.8	.5
1985	1,500.7	248.0	203.9	285.7	667.5	8.3	86.8	.5
1986	1,617.2	260.0	210.6	307.7	737.7	6.9	93.7	.6
1987	1,700.3	275.9	217.1	329.7	772.9	6.9	97.2	.6
1988	1,755.7	295.8	223.7	351.7	773.0	6.8	104.1	.6
1989	1,824.5	309.8	227.0	362.7	807.9	5.5	111.0	.6
1990	1,896.2	321.7	233.6	373.7	843.1	5.4	117.9	.8
1991	1,975.4	334.7	236.9	395.6	878.3	4.2	124.9	.8
1992	2,055.5	347.6	243.5	417.6	913.4	4.2	128.4	.8
1993	2,093.5	360.6	250.0	428.6	914.0	4.1	135.3	.9
1994	2,171.1	371.5	253.3	450.6	948.5	4.0	142.3	.9
1995	2,234.9	382.5	256.6	461.6	983.6	4.0	145.7	.9

E—Estimate.

Source: FAA

ACCIDENT RATES U.S. GENERAL AVIATION (1972-1983)



Source - NTSB 1983 - Estimated

General Aviation Fuel Consumed by Type of Aircraft—CY1982

Aircraft Type	Mean Rate GPH	Estimated Fuel Use (mil gal)	Standard Error (mil gal)
Fixed Wing			
Piston			
1 engine 1-3 seats	8.30	69.09	1.6
1 engine 4+ seats	10.94	174.28	1.1
Total 1 engine	10.03	243.37	2.0
2 engines 1-6 seats	26.14	79.45	1.3
2 engines 7+ seats	39.78	104.12	5.7
Total 2 engines	32.45	183.58	5.8
Other Piston	394.18	13.16	1.1
Total Piston	14.70	440.11	6.2
Turboprop			
2 engines 1-12 seats	76.88	121.16	2.0
2 engines 13+ seats	214.86	111.81	11.1
Total 2 engines	111.13	232.97	11.3
Other Turboprop	43.35	3.09	2.1
Total Turboprop	108.91	236.06	11.5
Turbojet			
2 engines	297.77	401.06	29.0
Other	7[illegible]5	186.12	37.0
Total Turbojet	36[illegible]	587.18	47.0
Total Fixed Wing	37.4[illegible]	1263.35	48.7
Rotorcraft			
Piston	14.09	8.16	0.2
Turbine	36.25	64.21	6.2
Total Rotorcraft	30.79	72.37	6.2
Other	0.00	0.00	0.0
Total Aircraft	36.64	1335.72	49.1
Total Jet Fuel	159.91	887.45	48.7
Total Aviation Gasoline	14.50	448.27	6.3

Source: FAA

GAMA MEMBERS

General Aviation Manufacturers Association

The General Aviation Manufacturers Association (GAMA)—a national trade association headquartered in Washington, D.C. represents 36 U.S. manufacturers of general aviation aircraft, engines, avionics, and related items.

Aeroquip Corporation
Aerospace Division
300 South East Avenue
Jackson, MI 49203
(517) 787-8121

Aire-Sciences, Incorporated
216 Passaic Avenue
Fairfield, NJ 07006
(201) 228-1880

The Allied Corporation
Aircraft Systems Company
Bendix Aerospace Sector
1000 Wilson Blvd.
30th Floor
Arlington, VA 22209
(703) 276-2090

AVCO Corporation
Lycoming Stratford Division
550 South Main Street
Stratford, CT 06497
(203) 385-2000

AVCO Corporation
Lycoming Williamsport Division
652 Oliver Street
Williamsport, PA 17701
(717) 323-6181

Aviation Simulation Technology
Hanscom Field-East
Bedford, MA 01730
(617) 274-6600

Beech Aircraft Corporation
9709 East Central
Wichita, KS 67201
(316) 681-7111

Century Flight Systems, Inc.
P.O. Box 610
Mineral Wells, TX 76067

Cessna Aircraft Company
P.O. Box 1521
Wichita, KS 67201
(316) 685-9111

Champion Spark Plug Company
P.O. Box 910
Toledo, OH 43601
(419) 535-2461

Collins Avionics Group
Rockwell International
400 Collins Rd., NE
Cedar Rapids, IA 52498
(319) 395-1000

Dukes, Incorporated
9060 Winnetka Avenue
Northridge, CA 91342
(213) 998-9811

Elano Corporation
2455 Dayton-Xenia Road
Xenia, OH 45385
(513) 426-0621

Fairchild Aircraft Corporation
Box 32486
San Antonio, TX 78284
(512) 824-9421

FlightSafety International, Inc.
Marine Air Terminal
LaGuardia Airport
Flushing, NY 11371
(212) 565-4100

The Garrett Corporation
9851 Sepulveda Boulevard
P.O. Box 92248
Los Angeles, CA 90009
(213) 417-6522

B.F. Goodrich Company
Aerospace and Defense Division
Engineered Products Group
500 South Main Street
Akron, OH 44318
(216) 374-4511

Goodyear Aerospace Corporation
1210 Massillon Road
Akron, OH 44315
(216) 796-2121

Gulfstream Aerospace Corporation
P.O. Box 2206
Savannah, GA 31402
(912) 964-3000

Honeywell, Incorporated
Commercial Aviation Operations
5775 Wayzata Boulevard
P.O. Box 889
Minneapolis, MN 55440
(612) 542-5775

HTL Industries, Inc.
101 East Wheeler Avenue
Arcadia, CA 91006
(213) 574-7880

Jeppesen Sanderson, Incorporated
55 Inverness Drive East
Englewood, CO 80112
(303) 779-9090

King Radio Corporation
400 North Rogers Road
Olathe, KS 66062
(913) 782-0400

Marathon Battery Company
P.O. Box 8233
Waco, TX 76714
(817) 776-0650

McCreary Tire & Rubber
Company
P.O. Box 749
Indiana, PA 15701
(412) 349-9010

Midland Ross Corporation
Grimes Division
550 Route 55
P.O. Box 247
Urbana, OH 43078
(513) 652-1431

Mooney Aircraft Corporation
P.O. Box 72
Louis Schreiner Field
Kerrville, TX 78028
(512) 896-6000

Pacific Scientific Company
Kin-Tec Division
1346 S. State College Boulevard
Anaheim, CA 92803
(714) 774-5217

Parker Hannifin Corporation
Airborne Division
Aircraft Wheel & Brake Division
17325 Euclid Avenue
Cleveland, OH 44112
(216) 531-3000

Piper Aircraft Corporation
P.O. Box 1328
Vero Beach, FL 23960
(305) 567-4361

Sabreliner Corporation
6161 Aviation Drive
St. Louis, MO 63134
(314) 731-2260

The Singer Company
Link Flight Simulator Division
Binghamton, NY 13902

Sperry Corporation
Flight Systems Division
P.O. Box 21111
Phoenix, AZ 85036
(602) 869-2311

Teledyne Continental Motors
Aircraft Products Division
P.O. Box 90
Mobile, AL 36601
(205) 438-3411

TRW Hartzell Propeller, Inc.
1800 Covington Avenue
P.O. Box 1458
Piqua, OH 45356
(513) 778-4200

United Technologies Corporation
Pratt & Whitney Canada
1000 Marie-Victorin Blvd.
Box 10
Lonqueuil, PQ
Canada, J4K 4X9
(514) 677-9411

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